Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Currently Amended) A method for preparing a catalyst, comprising: first combining mineral oil with one or more liquid alkanes having three or more carbon atoms to form a mixture;
 - followed by combining with the mixture a <u>spray dried</u> catalyst system comprising one or more components selected from the group consisting of metallocenes, non-metallocenes, and a combination thereof to form a slurry.
- 2. (Original) The method of claim 1, wherein the viscosity of the slurry is reduced by at least 30 percent due to the addition of the one or more liquid alkanes.
- (Original) The method of claim 1, wherein the catalyst system is a mixed catalyst system
 comprising at least one metallocene component and at least one non-metallocene
 component.
- 4. (Original) The method of claim 1, wherein the slurry comprises up to 20 percent by weight of the one or more liquid alkanes.
- 5. (Original) The method of claim 1, wherein the slurry comprises between about 2 percent by weight and 15 percent by weight of the one or more liquid alkanes.
- 6. (Original) The method of claim 1, wherein the slurry comprises up to 50 percent by weight of the catalyst system.

- 7. (Original) The method of claim 1, wherein the slurry comprises at least 10 percent by weight of the catalyst system.
- 8. (Original) The method of claim 1, wherein the slurry comprises from 5 percent by weight to about 35 percent by weight of the catalyst system.
- (Original) The method of claim 1, wherein the slurry comprises from 10 percent by weight to about 30 percent by weight of the catalyst system.
- 10. (Previously presented) The method of claim 1, wherein the metallocene, when present, is represented by the formula:

wherein:

M is a metal atom:

Cp^A and Cp^B are each independently an unsubstituted or substituted cyclic ring group; X is a leaving group; and n is zero or an integer from 1 to 4.

- 11. (Original) The method of claim 10, wherein Cp^A and Cp^B are each independently selected from the group consisting of cyclopentadienyl, indenyl, combinations thereof, and derivatives thereof.
- 12. (Original) The method of claim 10, wherein M is zirconium.
- 13. (Original) The method of claim 10, wherein X is selected from the group consisting of amines, phosphones, ethers, carboxylates, dienes, hydrocarbyl radicals having from 1 to 20 carbon atoms, hydrides, halogens, combinations thereof, and derivatives thereof, and wherein n is 2.

14. (Previously presented) The method of claim 1, wherein the non-metallocene, when present, is represented by the formula:

 $\alpha_a \beta_b \gamma_g M X_n$

wherein M is a metal;

X is independently selected from the group consisting of halogen ions, hydrides, C₁ to C₁₂ alkyls, C₂ to C₁₂ alkenyls, C₆ to C₁₂ aryls, C₇ to C₂₀ alkylaryls, C₁ to C₁₂ alkoxys, C₆ to C₁₆ aryloxys, C₇ to C₁₈ alkylaryloxys, C₁ to C₁₂ fluoroalkyls, C₆ to C₁₂ fluoroaryls, C₁ to C₁₂ heteroatom-containing hydrocarbons, halogenated C₆ to C₁₆ aryloxys, and substituted derivatives thereof;

 β and γ are groups that each comprise at least one Group 14 to Group 16 atom; α is a linking moiety that forms a chemical bond to each of β and γ ; and a, b, α , and n are each integers from 1 to 4.

- 15. (Original) The method of claim 14, wherein M is zirconium.
- 16. (Currently amended) A catalyst slurry for olefin polymerization, comprising the product of:
 - first combining mineral oil with one or more liquid alkanes having three or more carbon atoms to form a mixture;
 - followed by combining with the mixture a <u>spray dried</u> catalyst system comprising one or more catalysts selected from the group consisting of metallocenes, non-metallocenes, and a combination thereof to form a slurry.
- 17. (Original) The catalyst slurry of claim 16, wherein the catalyst system further comprises one or more activators.
- 18. (Original) The catalyst slurry of claim 16, wherein the slurry comprises up to 20 percent by weight of the one or more liquid alkanes.

- 19. (Original) The catalyst slurry of claim 16, wherein the slurry comprises between about 2 percent by weight and 15 percent by weight of the one or more liquid alkanes.
- 20. (Original) The catalyst slurry of claim 16, wherein the slurry comprises up to 50 percent by weight of the catalyst system.
- 21. (Original) The catalyst slurry of claim 16, wherein the slurry comprises at least 10 percent by weight of the catalyst system.
- 22. (Original) The catalyst slurry of claim 16, wherein the slurry comprises from 5 percent by weight to about 35 percent by weight of the catalyst system.
- 23. (Original) The catalyst slurry of claim 16, wherein the slurry comprises from 10 percent by weight to about 30 percent by weight of the catalyst system.
- 24. (Previously presented) The catalyst slurry of claim 16, wherein the metallocene, when present, is represented by the formula:

$$Cp^{\Lambda}Cp^{B}MX_{n}$$

wherein:

M is a metal atom;

Cp^A and Cp^B are each independently an unsubstituted or substituted cyclic ring group; X is a leaving group; and n is zero or an integer from 1 to 4.

- 25. (Original) The catalyst slurry of claim 24, wherein Cp^A and Cp^B are each independently selected from the group consisting of cyclopentadienyl, indenyl, combinations thereof, and derivatives thereof.
- 26. (Original) The catalyst slurry of claim 24, wherein M is zirconium.

- 27. (Original) The catalyst slurry of claim 24, wherein X is selected from the group consisting of amines, phosphones, ethers, carboxylates, dienes, hydrocarbyl radicals having from 1 to 20 carbon atoms, hydrides, halogens, combinations thereof, and derivatives thereof, and wherein n is 2.
- 28. (Previously presented) The catalyst slurry of claim 16, wherein the non-metallocene, when present, is represented by the formula:

$\alpha_a \beta_b \gamma_g M X_n$

wherein M is a metal;

X is independently selected from the group consisting of halogen ions, hydrides, C₁ to C₁₂ alkyls, C₂ to C₁₂ alkenyls, C₆ to C₁₂ aryls, C₇ to C₂₀ alkylaryls, C₁ to C₁₂ alkoxys, C₆ to C₁₆ aryloxys, C₇ to C₁₈ alkylaryloxys, C₁ to C₁₂ fluoroalkyls, C₆ to C₁₂ fluoroaryls, C₁ to C₁₂ heteroatom-containing hydrocarbons, halogenated C₆ to C₁₆ aryloxys, and substituted derivatives thereof;

 β and γ are groups that each comprise at least one Group 14 to Group 16 atom; α is a linking moiety that forms a chemical bond to each of β and γ ; and a, b, g, and n are each integers from 1 to 4.

- 29. (Original) The catalyst slurry of claim 28, wherein M is zirconium.
- 30. (Currently amended) A method for olefin polymerization, comprising: first combining mineral oil with one or more liquid alkanes having three or more carbon atoms to form a mixture;
 - followed by combining with the mixture a <u>spray dried</u> catalyst system comprising one or more catalysts selected from the group consisting of metallocenes, non-metallocenes, and a combination thereof <u>to form a slurry</u>; and transferring the slurry to a gas phase reactor.

- 31. (Original) The method of claim 30, wherein the viscosity of the slurry is reduced by at least 30 percent due to the addition of the one or more liquid alkanes.
- 32. (Original) The method of claim 30, wherein the catalyst system is a mixed catalyst system comprising at least one metallocene component and at least one non-metallocene component.
- 33. (Original) The method of claim 30, wherein the slurry comprises up to 20 percent by weight of the one or more liquid alkanes.
- 34. (Original) The method of claim 30, wherein the slurry comprises up to 50 percent by weight of the catalyst system.
- 35. (Previously presented) The method of claim 30, wherein the metallocene, when present, is represented by the formula:

$$Cp^{\Lambda}Cp^{B}MX_{n}$$

wherein:

M is a metal atom;

Cp^A and Cp^B are each independently an unsubstituted or substituted cyclic ring group;

X is a leaving group; and

n is zero or an integer from 1 to 4.

- 36. (Original) The method of claim 35, wherein Cp^A and Cp^B are each independently selected from the group consisting of cyclopentadienyl, indenyl, combinations thereof, and derivatives thereof, and wherein M is zirconium.
- 37. (Original) The method of claim 35, wherein X is selected from the group consisting of amines, phosphones, ethers, carboxylates, dienes, hydrocarbyl radicals having from 1 to

20 carbon atoms, hydrides, halogens, combinations thereof, and derivatives thereof, and wherein n is 2.

38. (Previously presented) The method of claim 30, wherein the non-metallocene, when present, is represented by the formula:

 $\alpha_a \beta_b \gamma_e M X_n$

wherein M is a metal;

X is independently selected from the group consisting of halogen ions, hydrides, C₁ to C₁₂ alkyls, C₂ to C₁₂ alkenyls, C₆ to C₁₂ aryls, C₇ to C₂₀ alkylaryls, C₁ to C₁₂ alkoxys, C₆ to C₁₆ aryloxys, C₇ to C₁₈ alkylaryloxys, C₁ to C₁₂ fluoroalkyls, C₆ to C₁₂ fluoroaryls, C₁ to C₁₂ heteroatom-containing hydrocarbons, halogenated C₆ to C₁₆ aryloxys, and substituted derivatives thereof;

 β and γ are groups that each comprise at least one Group 14 to Group 16 atom; α is a linking moiety that forms a chemical bond to each of β and γ ; and a, b, g, and n are each integers from 1 to 4.

39. (Original) The method of claim 38, wherein M is zirconium.